

**LAND APPLICATION SITE**

**GEORGE W. HANEY**

**GRGWH 1 - 12**

**GREENE COUNTY**

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 5-18-15 between George W. Haney referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Greene Co Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>39-A-15</u>			
<u>29-A-9</u>			
<u>39-A-13</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

George W. Haney  
Landowner - Printed Name, Title

George W. Haney  
Signature

876 Dundee Rd Rockersville  
Mailing Address & Phone Number  
434-962-0010

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]  
Permittee - Authorized Representative  
Printed Name

[Signature]  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Greene Co  
 Landowner: George W. Hickey

**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
  - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
  - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
  - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:
 

Following biosolids application to pasture or hayland sites:

  - a. Meat producing livestock shall not be grazed for 30 days,
  - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
  - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

George W. Hickey  
 Landowner's Signature

May 18, 2015  
 Date

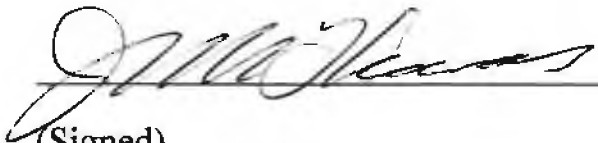
George W. Hickey  
 Farm Operator Signature

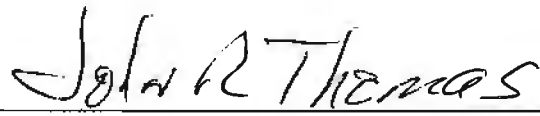
876 Dunbar Rd  
Ruckersville, Va 22968  
 Mailing Address & Phone Number  
434-962-0010

THOMAS FARM

Setback Variance Agreement

I am an adjoining property owner to George W. Haney in Greene County, Virginia. I agree to allow George W. Haney to apply biosolids as close to my property as needed when applying biosolids to his property.

  
(Signed)

  
(Printed)

Setback Variance Agreement

I am an adjoining property owner to George W. Haney in Greene County, Virginia. I agree to allow George W. Haney to apply biosolids as close to my property as needed when applying biosolids to his property.

Billy McDaniel  
(Signed)

Billy McDaniel  
(Printed)

# FARM DATA SHEET

<b>SITE NAME:</b>	George W. Haney	<b>COUNTY:</b>	Greene
<b>OWNER:</b>	George W. Haney	<b>OPERATOR:</b>	George W. Haney
<b>OWNER'S ADDRESS:</b>	876 Dundee Road Ruckersville, VA 22968	<b>OPERATOR'S ADDRESS:</b>	876 Dundee Road Ruckersville, VA 22968
<b>OWNER'S TELEPHONE:</b>	434-962-0010	<b>OPERATOR'S TELEPHONE:</b>	434-962-0010
<b>GENERAL FARM TYPE:</b>	Hay/ Pasture	<b>CELL PHONE:</b>	-
<b># CATTLE:</b>	60	<b>EMAIL:</b>	-
<b>LAGOON or SLURRY:</b>	None	<b>LATITUDE:</b>	Fields 1-8 36.294 Fields 9-12 38.288
<b>TOPO QUAD:</b>	Stanardsville and Rochelle	<b>LONGITUDE:</b>	Fields 1-8 78.368 Fields 9-12 78.381
<b>COMMENTS:</b>	<b>METHOD OF DETERMINATION:</b>		Online Maps

BB 0

12-7-17

**FIELD CHANGES**  
**GEORGE W. HANEY**  
**GREENE CO.**

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**PART OF OLD FIELD 8 IS NOW PART OF FIELD 7.**

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

Field Identification	DEQ Control ID	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
			Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
GRGWH 1	51079-00066-0000	10.0	-	AsD	-	-	RA 26	39-A-15	T 384 F 3
GRGWH 2	51079-00067-0000	13.0	-	-	-	Cs Feb.-May	RA 26	39-A-15	T 384 F 5
GRGWH 3	51079-00068-0000	26.6	Sc Nov.-Apr.	AsD	-	Cs Feb.-May Sc Dec.-May	RA 26	39-A-15	T 384 F 4, 5
GRGWH 4	51079-00069-0000	21.6	Cn Nov.-Apr.	-	-	Cs Feb.-May	RA 26	29-A-9	T 372 F 5
GRGWH 5	51079-00070-0000	24.6	Cn Nov.-Apr. Hb Oct.-May Sc Nov.-Apr.	AsE	-	Cs Feb.-May Hb Oct.-May Sc Dec.-May	RA 26	29-A-9	T 372 F 2, 3, 4, 9
GRGWH 6	51079-00071-0000	35.3	-	AsC, AsD	-	-	RA 26	29-A-9 39-A-15	T 372 F 1, 10
GRGWH 7	51079-00072-0000	22.5	-	AsC, AsD, AsE	-	-	RA 26	39-A-15	T 384 F 1, 2
GRGWH 8	51079-00073-0000	13.6	-	-	-	-	RA 26	39-A-15	T 384 F 2, 4
GRGWH 9	51079-00074-0000	19.1	Cn Nov.-Apr. Hb Oct.-May Kn Nov.-May	AsD	-	Cs Feb.-May Hb Oct.-May	RA 26	39-A-13	T 457 F 2, 4, 5, 8
GRGWH 10	51079-00075-0000	13.8	CgB Dec.-May Kn Nov.-May	AsD	-	-	RA 26	39-A-13	T 457 F 1
GRGWH 11	51079-00076-0000	21.1	Hb Oct.-May Kn Nov.-May	-	-	Hb Oct.-May	RA 26	39-A-13	T 457 F 3
GRGWH 12	51079-00077-0000	16.2	-	-	-	-	RA 26	39-A-13	T 457 F 6
TOTAL ACRES IN SITE		237.4							

8-25-2020



[illegible]

Report Number: 15-142-0554

Account Number: 70594



www.aleastern.com

# A&L Eastern Laboratories

7621 Whiteplne Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC  
SUSAN TRUMBO  
8455 WHITESHOP RD  
CULPEPER VA 22701

Grower:  
GEORGE W HANEY  
GREENE CO

Submitted By: SD  
Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 05/22/2015

Date Of Analysis: 05/25/2015

Date Of Report: 05/26/2015

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus		Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Reserve Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1 GRGWH	10888	8.2	VH	150	124	VH	273	VH	180	L	1958	M			5.7	6.61	3.2	15.2
2 GRGWH	10889	6.3	H	150	170	VH	127	L	153	L	2622	VH			6.7	6.86	0.7	15.4
3A GRGWH	10890	6.5	H	150	187	VH	138	M	145	L	2557	VH			6.7	6.86	0.7	15.0
3B GRGWH	10892	6.6	H	150	197	VH	129	M	150	L	2743	H			6.5	6.81	1.2	16.5
4 GRGWH	10893	6.0	H	148	308	VH	103	L	173	L	2549	H			6.7	6.86	0.7	15.1

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
1 GRGWH	4.6	9.9	64.4		21.1					11.7	VH	88	VH											
2 GRGWH	2.1	8.3	85.1		4.5					11.5	VH	80	VH											
3A GRGWH	2.4	8.1	85.2		4.5					10.1	VH	110	VH											
3B GRGWH	2.0	7.6	83.1		7.4					11.2	VH	110	VH											
4 GRGWH	1.7	9.5	84.4		4.5					11.4	VH	63	VH											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by A&L Eastern Laboratories, Inc.

by: *Pauric McGeary*

Pauric McGeary

Report Number: 15-142-0554

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Grower:  
GEORGE W HANEY  
GREENE CO

Submitted By: SD  
Farm ID:

Date Received: 05/22/2015

Date Of Report: 05/26/2015

## SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1 GRGWH	Adjust pH to 6.8	0	2.5				0			0			
2 GRGWH	Adjust pH to 6.8	0	1.0				0			0			
3A GRGWH	Adjust pH to 6.8	0	1.0				0			0			
3B GRGWH	Adjust pH to 6.8	0	1.0				0			0			
4 GRGWH	Adjust pH to 6.8	0	1.0				0			0			

### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGroary

Report Number: 15-142-0554

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Grower:  
GEORGE W HANEY  
GREENE CO

Submitted By: SD  
Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
Mehlich 3

Date Received: 05/22/2015

Date Of Analysis: 05/25/2015

Date Of Report: 05/26/2015

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus		Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Reserve Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
5 GRGWH	10894	13.4	VH	150	113	VH	70	L	86	L	1283	H			6.2	6.83	1.0	8.3
6 GRGWH	10895	8.2	VH	150	112	VH	207	VH	186	M	2275	H			6.4	6.80	1.3	14.8
7 GRGWH	10896	6.4	H	150	51	H	331	VH	171	M	1489	M			6.0	6.75	1.8	11.5
8 GRGWH	10897	6.5	H	150	76	H	341	VH	213	M	1637	M			6.0	6.73	2.0	12.8
9 GRGWH	10898	5.4	H	142	125	VH	68	L	129	L	1882	H			6.6	6.86	0.7	11.3

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
5 GRGWH	2.2	8.6	77.3		12.2					6.0	H	40	H											
6 GRGWH	3.6	10.5	76.9		8.9					10.6	VH	44	H											
7 GRGWH	7.4	12.4	64.7		15.4					4.5	H	74	VH											
8 GRGWH	6.8	13.9	63.9		15.4					5.5	H	41	H											
9 GRGWH	1.5	9.5	83.3		5.9					8.5	VH	130	VH											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Pauric McGeary*

Pauric McGeary

Report Number: 15-142-0554

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CULPEPER VA 22701

Grower:  
GEORGE W HANEY  
GREENE CO

Submitted By: SD  
Farm ID:

Date Received: 05/22/2015

Date Of Report: 05/26/2015

## SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
5 GRGWH	Adjust pH to 6.8	0	1.3				0			0			
6 GRGWH	Adjust pH to 6.8	0	1.3				0			0			
7 GRGWH	Adjust pH to 6.8	0	1.8				0			0			
8 GRGWH	Adjust pH to 6.8	0	1.8				0			0			
9 GRGWH	Adjust pH to 6.8	0	1.0				0			0			

### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

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Grower:  
GEORGE W HANEY  
GREENE CO

Submitted By: SD  
Farm ID:

## SOIL ANALYSIS REPORT

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Mehlich 3

Date Received: 05/22/2015

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		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g		
10 GRGWH	10899	7.3	VH	150	154	VH			189	H	228	M	3099	VH			7.0		0.0			17.9
11 GRGWH	10900	5.7	H	146	90	H			65	L	105	L	2335	VH			7.4		0.0			12.7
12 GRGWH	10901	5.7	H	145	140	VH			47	VL	99	L	2455	VH			7.1		0.0			13.2

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum	
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm	
10 GRGWH	2.7	10.6	86.6		0.0					8.0	H	110	VH												
11 GRGWH	1.3	6.9	91.9		0.0					7.5	H	169	VH												
12 GRGWH	0.9	6.3	93.0		0.0					7.8	H	72	VH												

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 15-142-0554

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Grower:  
GEORGE W HANEY  
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Submitted By: SD  
Farm ID:

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## SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
10 GRGWH	Adjust pH to 6.8	0	0.0				0			0			
11 GRGWH	Adjust pH to 6.8	0	0.0				0			0			
12 GRGWH	Adjust pH to 6.8	0	0.0				0			0			

### Comments:

#### Sample(s) : 11 Crop: Adjust pH to 6.8

Cation Exchange Capacity may be over-estimated due to high pH and free lime in the soil.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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*Paucic McGroary*

Paucic McGroary

THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet**  
**(Spring, 2018-Summer, 2020)**

**George W. Haney**  
**Planner: John Doe**

Tract: 372

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
5/GRGWH 4(0P)	23/23	2018	Grass Pasture	50-0-80	0/0				50-0-80	30			
2, 3, 4, 9/GRGWH 5(N)	22/22	2018	Grass Pasture	50-0-90	0/0				50-0-90	N/A			
1, 10/GRGWH 6(N)	38/38	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:



Tract: 384

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/GRGWH 1(N)	9/9	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			
5/GRGWH 2(1P)	10/10	2018	Grass Pasture	50-0-0	0/0				50-0-0	30			
4, 5/GRGWH 3(1P)	28/28	2018	Grass Pasture	50-0-0	0/0				50-0-0	30			
1, 2/GRGWH 7(N)	24/24	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			
2, 4/GRGWH 8(N)	14/14	2018	Grass Pasture	50-0-0	0/0				50-0-0	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 457

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
2, 4, 5, 8/GRGWH 9(N)	23/23	2018	Fescue grass hay mt.	70-40-110	0/0				70-40-110	N/A			
1/GRGWH 10(1P)	13/13	2018	Fescue grass hay mt.	90-0-90	0/0				90-0-90	49			
3/GRGWH 11(N)	20/20	2018	Fescue grass hay mt.	70-40-110	0/0				70-40-110	N/A			
5/GRGWH 12(1P)	19/19	2018	Fescue grass hay mt.	70-0-120	0/0				70-0-120	45			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

**Soil Test Summary**

<b>Tract</b>	<b>Field</b>	<b>Acre</b>	<b>Date</b>	<b>P2O5</b>	<b>K2O</b>	<b>Lab</b>	<b>Soil pH</b>	<b>Lime Date</b>	<b>rec. lime tons/Ac</b>
372	GRGWH 4	23	2015-Sp	VH (308 P ppm)	M (103 K ppm)	A&L MIII	6.7		
372	GRGWH 5	22	2015-Sp	H+ (113 P ppm)	M- (70 K ppm)	A&L MIII	6.2		
372	GRGWH 6	38	2015-Sp	H+ (112 P ppm)	H+ (207 K ppm)	A&L MIII	6.4		
384	GRGWH 1	9	2015-Sp	H+ (124 P ppm)	VH (273 K ppm)	A&L MIII	5.7		
384	GRGWH 2	10	2015-Sp	VH (170 P ppm)	H- (127 K ppm)	A&L MIII	6.7		
384	GRGWH 3	28	2015-Sp	VH (192 P ppm)	H- (134 K ppm)	A&L MIII	6.6		
384	GRGWH 7	24	2015-Sp	H- (51 P ppm)	VH (331 K ppm)	A&L MIII	6.		
384	GRGWH 8	14	2015-Sp	H (76 P ppm)	VH (341 K ppm)	A&L MIII	6.		
457	GRGWH 9	23	2015-Sp	H+ (125 P ppm)	M- (68 K ppm)	A&L MIII	6.		
457	GRGWH 10	13	2015-Sp	VH (154 P ppm)	H (189 K ppm)	A&L MIII	7.		
457	GRGWH 11	20	2015-Sp	H (90 P ppm)	M- (65 K ppm)	A&L MIII	7.4		
457	GRGWH 12	19	2015-Sp	VH (140 P ppm)	L+ (47 K ppm)	A&L MIII	7.1		

### Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
372	372/5	GRGWH 4	23	Unison	Ila	I	II	II	
	372/2, 3, 4,	GRGWH 5	22	Unison	Ilb	II	II	II	
	372/1, 10	GRGWH 6*	38	Elioak	IVb	III	III	III	High Leaching, High Slope
384	384/3	GRGWH 1	9	Elioak	IVb	III	III	III	
	384/5	GRGWH 2	10	Unison	Ilb	I	III	II	
	384/4, 5	GRGWH 3	28	Unison	Ilb	II	II	II	
	384/1, 2	GRGWH 7	24	Elioak	IVa	III	III	II	
	384/2, 4	GRGWH 8	14	Elioak	IVa	III	III	III	
457	457/2, 4, 5,	GRGWH 9	23	Kinkora	IIIb	III	III	III	
	457/1	GRGWH 10	13	Unison	IIIa	II	III	III	
	457/3	GRGWH 11	20	Unison	IVa	III	Not Suited	IV	
	457/5	GRGWH 12	19	Elioak	IVb	III	III	III	

\* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

### Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

## Farm Summary Report

**Plan:**            **New Plan**        **Spring, 2018 - Summer, 2020**

**Farm Name:**    **George W. Haney**

Location:        Greene

Specialist:      John Doe

N-based Acres: 150.1

P-based Acres: 93.1

**Tract Name:**    **372**

FSA Number:    372

Location:                    Greene

**Field Name:**        **GRGWH 4**

Total Acres:    23.20    Usable Acres:    23.20

FSA Number:    5

Tract:            372

Location:                    Greene

Slope Class:    B            Hydrologic Group:    D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

### **Conservation Practices:**

Pasture (>75% cover)

### *P-Index Summary*

Zero-P

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

### **Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.7	VH(308 P ppm)	M(103 K ppm)	A&L MIII	

### **Soils:**

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

12	Cn	Codorus
21	Cs	Comus
14	UnA	Unison
53	UnB	Unison

**Field Warnings:**

**Field Name:** GRGWH 5

Total Acres: 21.50 Usable Acres: 21.50

FSA Number: 2, 3, 4, 9

Tract: 372

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.2	H+(113 P ppm)	M-(70 K ppm)	A&L Mill	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
11	AsE	Ashe
11	Cn	Codorus
17	Cs	Comus
9	Hb	Hatboro
19	Sc	Codorus Suches
26	UnA	Unison
6	UnB	Unison

**Field Warnings:****Field Name:** GRGWH 6

Total Acres: 37.70 Usable Acres: 37.70

FSA Number: 1, 10

Tract: 372

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.4	H+(112 P ppm)	H+(207 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
15	AsC	Ashe
27	AsD	Ashe
8	EIB	Elioak
47	EIC	Elioak
3	MvB	Meadowville

**Field Warnings:***Environmentally Sensitive Soils due to:**Soils with potential for leaching based on soil texture or excessive drainage**Soils with percent slope in excess of 15%*

**Tract Name:** 384  
**FSA Number:** 384  
**Location:** Greene

**Field Name:** GRGWH 1  
**Total Acres:** 9.40 **Usable Acres:** 9.40  
**FSA Number:** 3  
**Tract:** 384  
**Location:** Greene  
**Slope Class:** C **Hydrologic Group:** C

**Riparian buffer width:** 0 ft  
**Distance to stream:** 0 ft

**Conservation Practices:**  
Pasture (>75% cover)

*P-Index Summary*  
N-based  
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	5.7	H+(124 P ppm)	VH(273 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
13	AsD Ashe	
27	DkC3 Dyke	
58	EIC Elioak	
2	EnC3 Elioak	

**Field Warnings:**

**Field Name:** GRGWH 2  
**Total Acres:** 10.20 **Usable Acres:** 10.20  
**FSA Number:** 5



Tract: 384  
Location: Greene  
Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.7	VH(170 P ppm)	H-(127 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
11	Cs	Comus
7	DkC3	Dyke
4	EnC3	Elioak
29	UnA	Unison
49	UnB	Unison

**Field Warnings:**

**Field Name: GRGWH 3**

Total Acres: 27.50 Usable Acres: 27.50

FSA Number: 4, 5

Tract: 384

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.6	VH(192 P ppm)	H-(134 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
1	AsD	Ashe
13	Cs	Comus
8	DkC3	Dyke
14	EnC3	Elioak
20	Sc	Codorus Suches
38	UnA	Unison
5	UnB	Unison

**Field Warnings:****Field Name:** GRGWH 7

Total Acres: 23.60 Usable Acres: 23.60

FSA Number: 1, 2

Tract: 384

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.0	H-(51 P ppm)	VH(331 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
15	AsC	Ashe
5	AsD	Ashe
1	AsE	Ashe
21	EIB	Elioak
39	EIC	Elioak
6	EnC3	Elioak
13	MvB	Meadowville

**Field Warnings:**

**Field Name:** GRGWH 8

Total Acres: 14.40 Usable Acres: 14.40

FSA Number: 2, 4

Tract: 384

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
------	----	---	---	--	-----

Sp-2015      6.0      H(76 P ppm)      VH(341 K ppm)      A&L MIII

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
40	DkC3 Dyke	
60	EIC Elioak	

**Field Warnings:**

**Tract Name:** 457

FSA Number: 457

Location: Greene

**Field Name:** GRGWH 9

Total Acres: 23.40 Usable Acres: 23.40

FSA Number: 2, 4, 5, 8

Tract: 457

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	6.0	H+(125 P ppm)	M-(68 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
7	AsD Ashe	

4	Cn	Codorus
24	Cs	Comus
3	EnC3	Elioak
4	Hb	Hatboro
36	Kn	Kinkora
12	MvB	Meadowville
4	UnA	Unison
7	UnB	Unison

**Field Warnings:**

**Field Name:** GRGWH 10

Total Acres: 12.80 Usable Acres: 12.80

FSA Number: 1

Tract: 457

Location: Greene

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	7.0	VH(154 P ppm)	H(189 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
3	AsD	Ashe
3	CgB	Chatuge
8	Kn	Kinkora
86	UnB	Unison

**Field Warnings:****Field Name: GRGWH 11**

Total Acres: 20.10 Usable Acres: 20.10

FSA Number: 3

Tract: 457

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (&gt;75% cover)

**P-Index Summary**

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	7.4	H(90 P ppm)	M-(65 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
5	EnC3	Elioak
9	EnD3	Elioak
22	Hb	Hatboro
29	Kn	Kinkora
28	UnA	Unison
8	UnB	Unison

**Field Warnings:****Field Name: GRGWH 12**

Total Acres: 19.40 Usable Acres: 19.40

FSA Number: 5

Tract: 457  
Location: Greene  
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft  
Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

**P-Index Summary**

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

DATE	PH	P	K		Lab
Sp-2015	7.1	VH(140 P ppm)	L+(47 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
23	EIB	Elioak
68	EnC3	Elioak
10	EnD3	Elioak

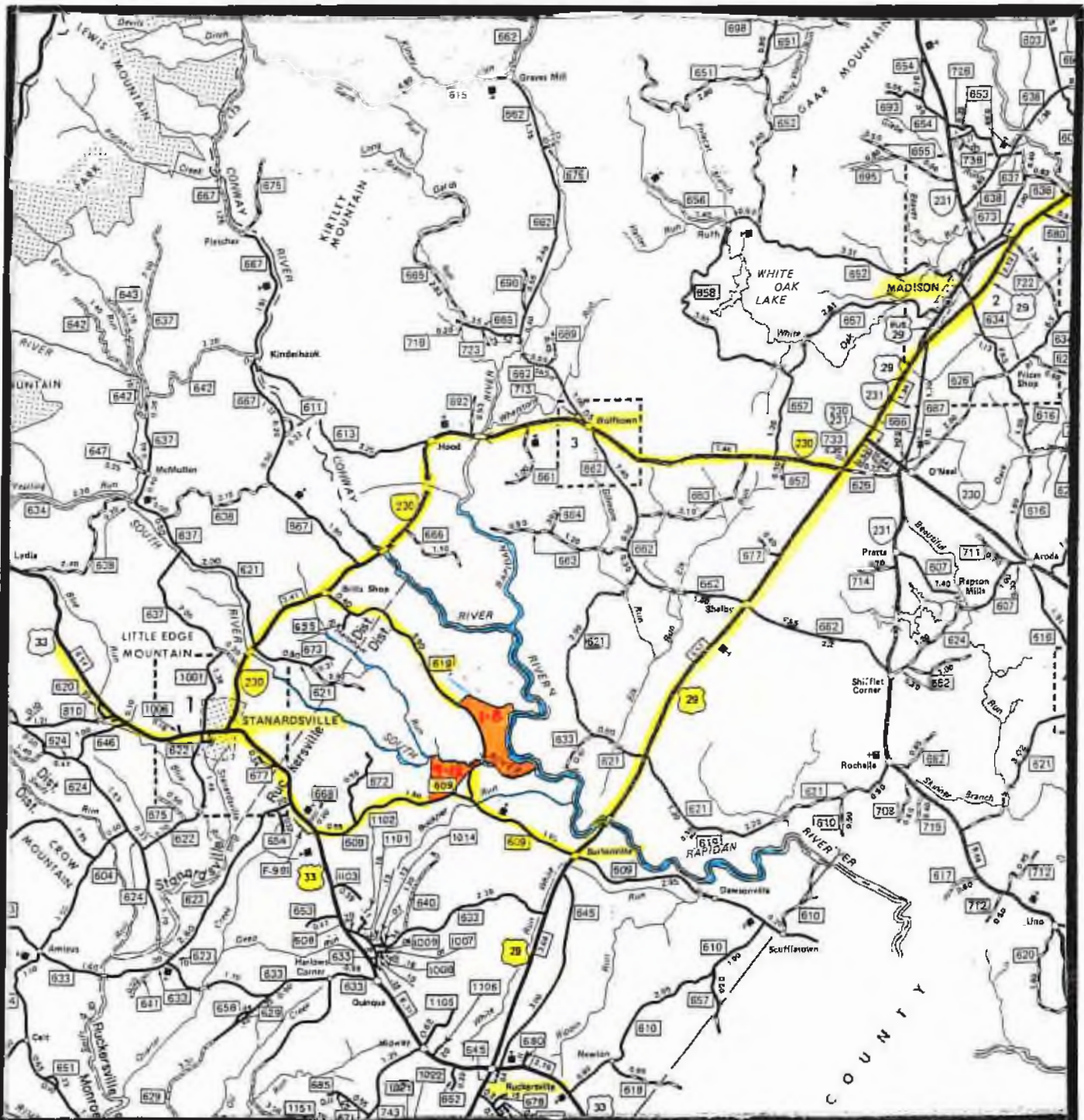
**Field Warnings:**

# MAPS



# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



**Scale:** 1" = 2 miles

GRGWH 1-12

12-7-17

**VICINITY MAP**

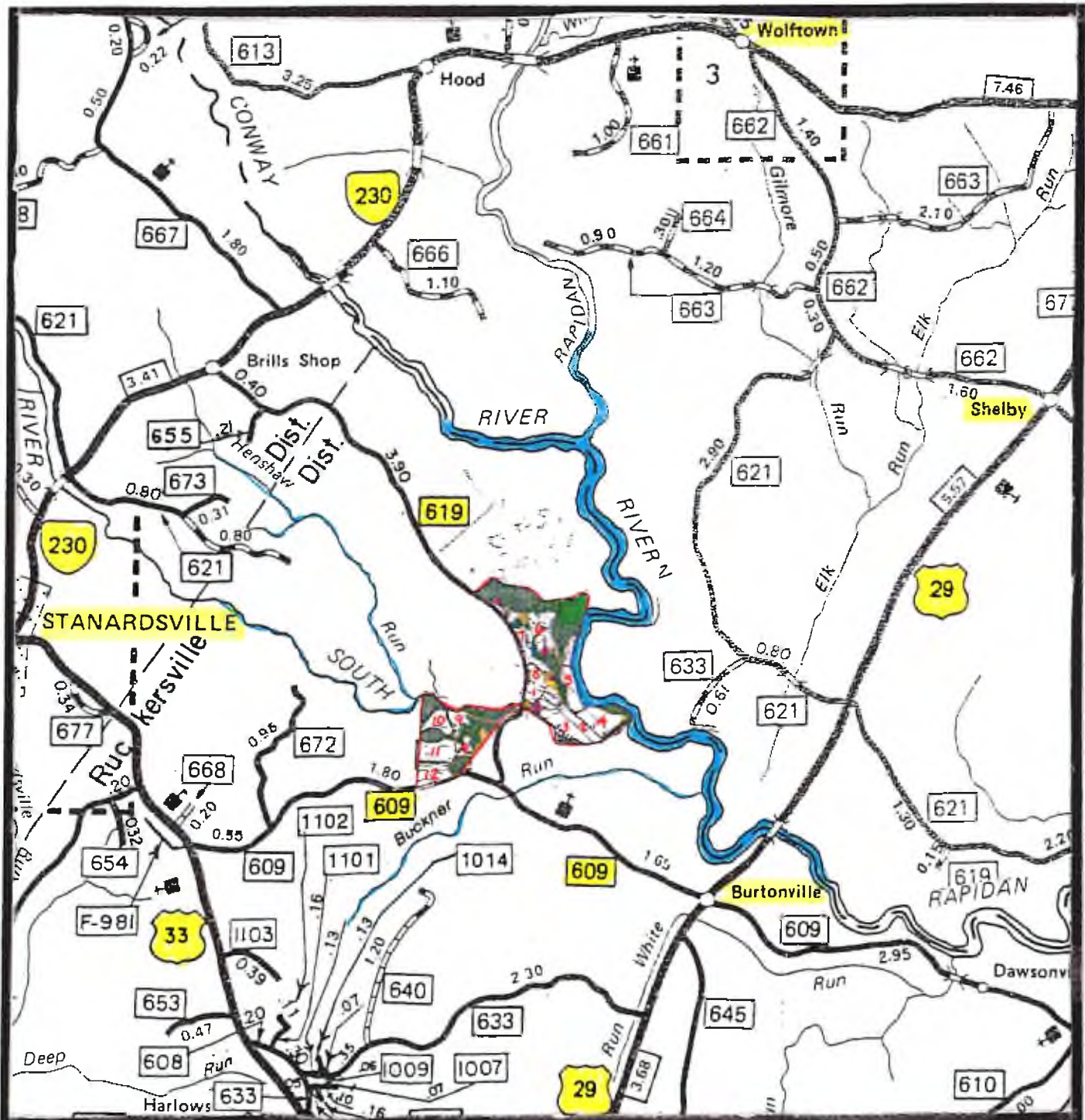




# Recyc Systems™

Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

GRGWH 1-12

12-7-17

VICINITY MAP





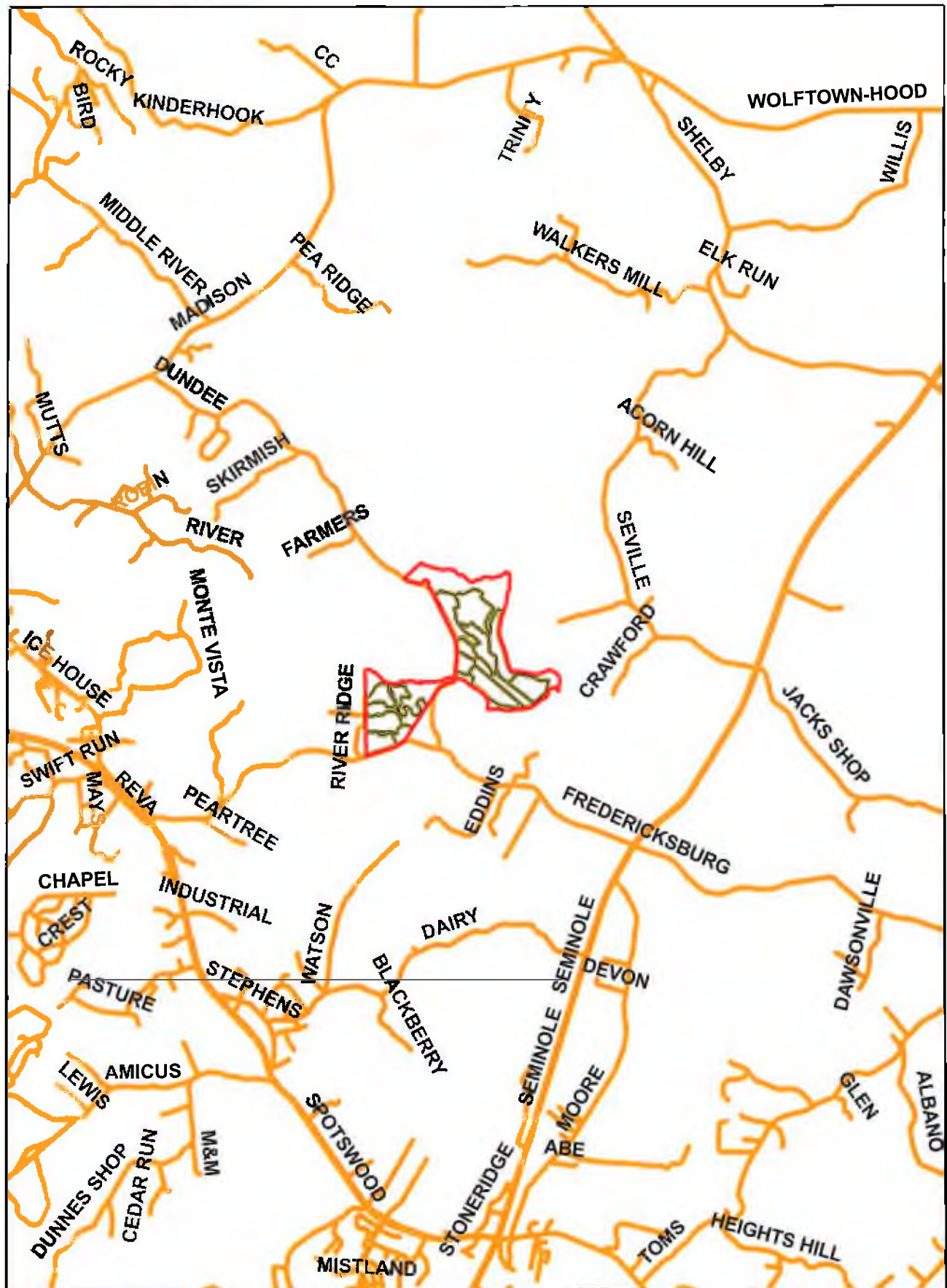


## Vicinity Map

1 in = 2 miles







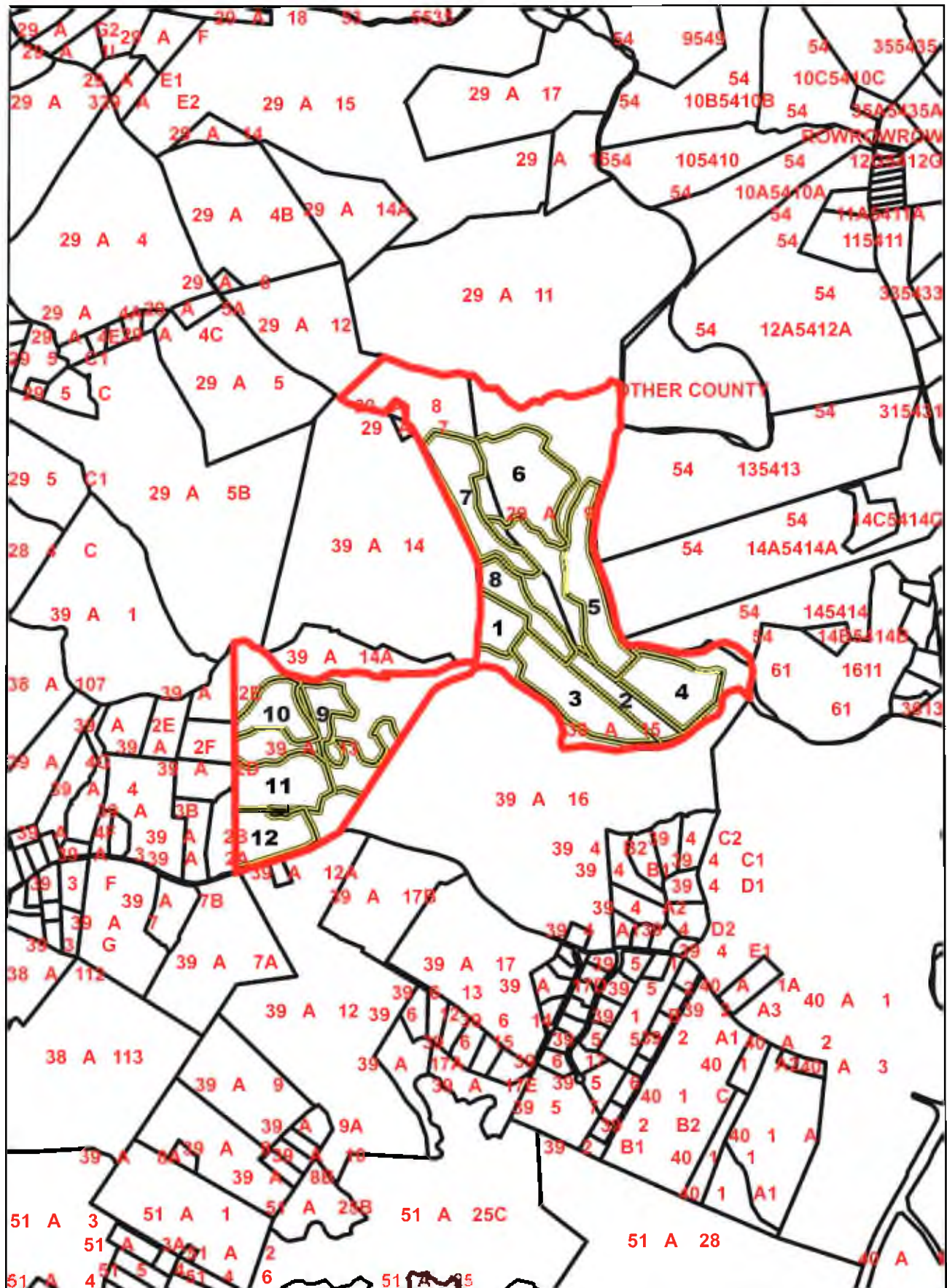
12-7-17



Vicinity Map

1 in = 1 miles

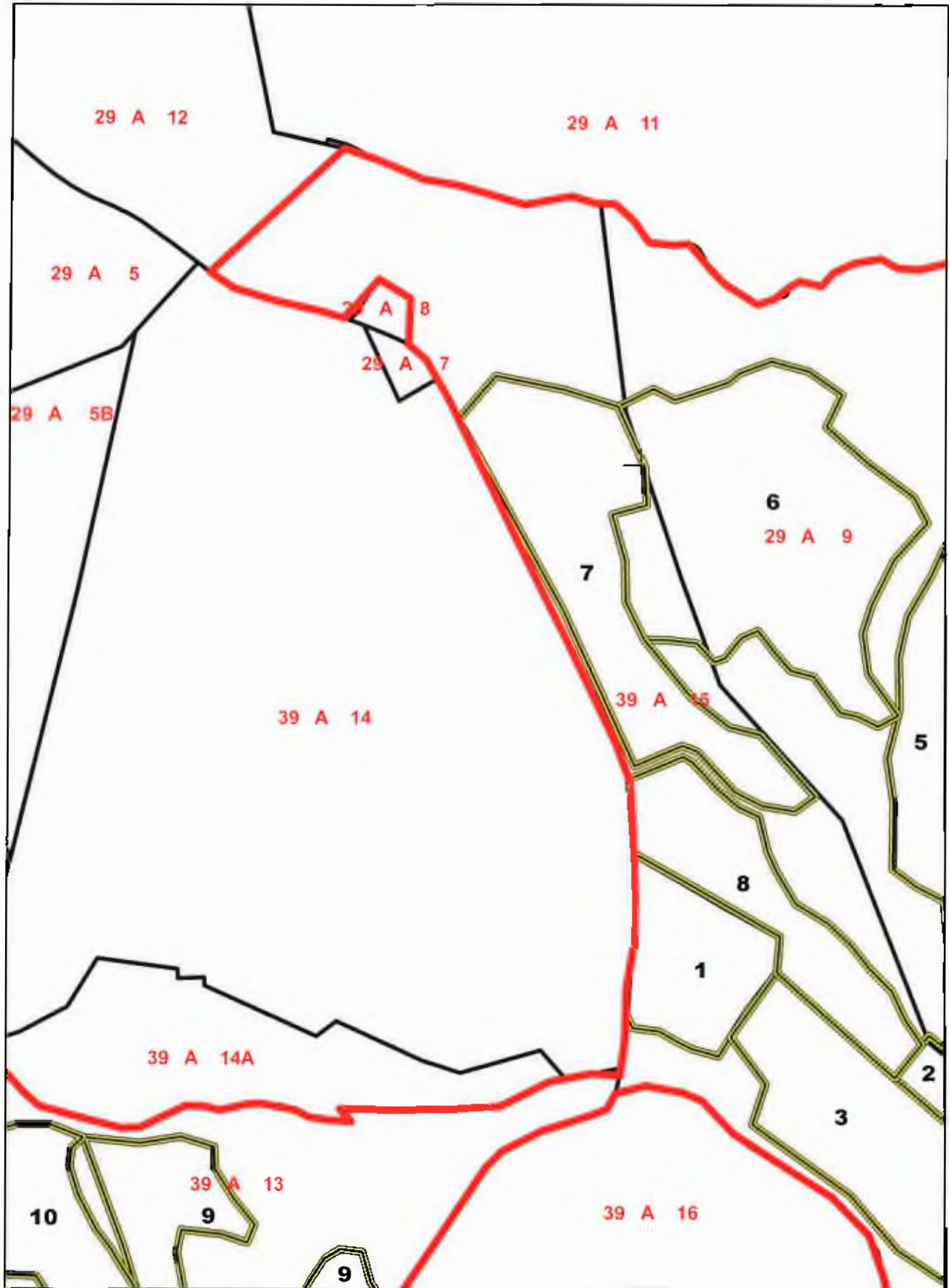




12-7-17

Tax Map

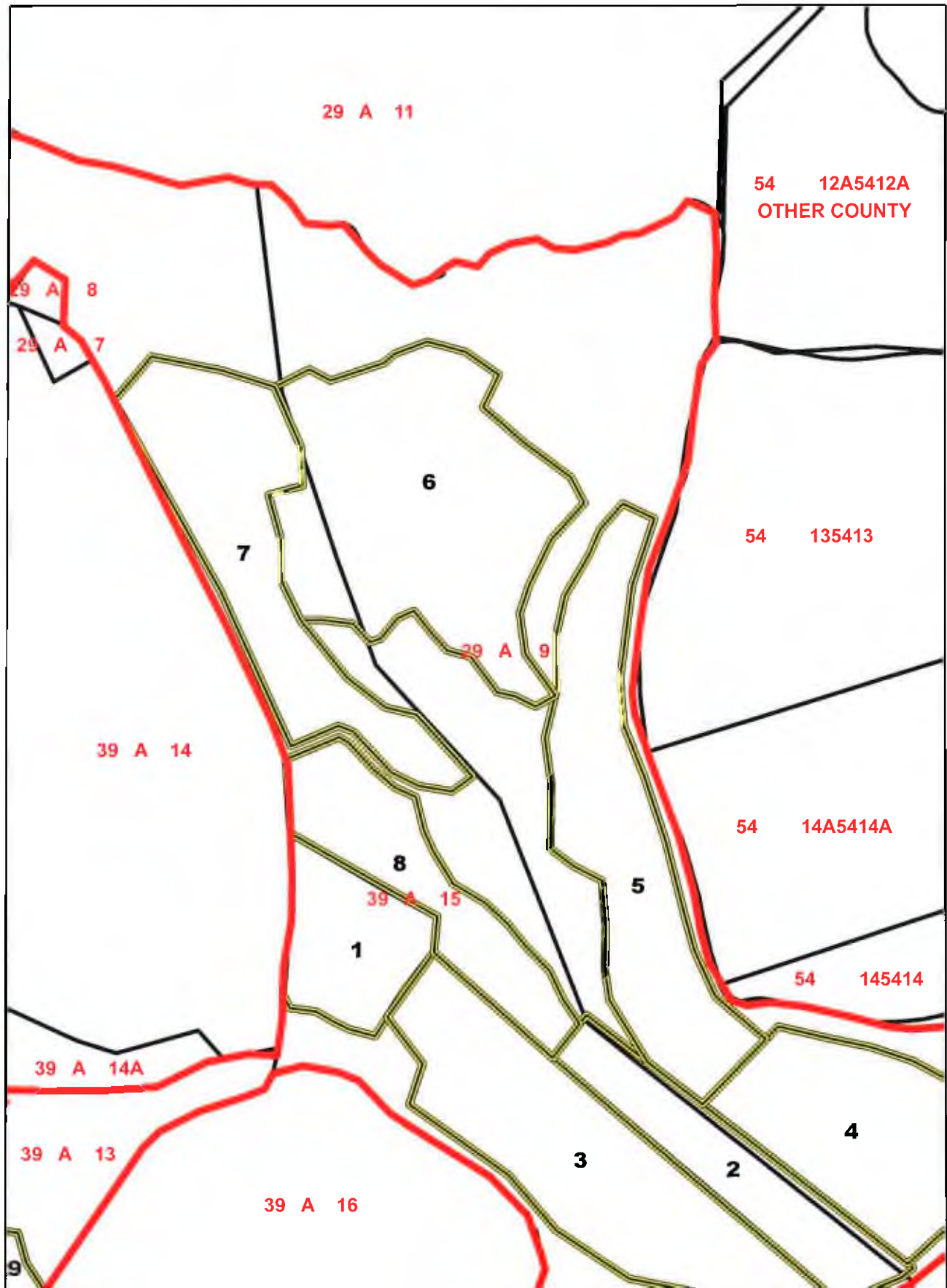
1 in = 2,000 feet



Tax Map

1 in = 660 feet



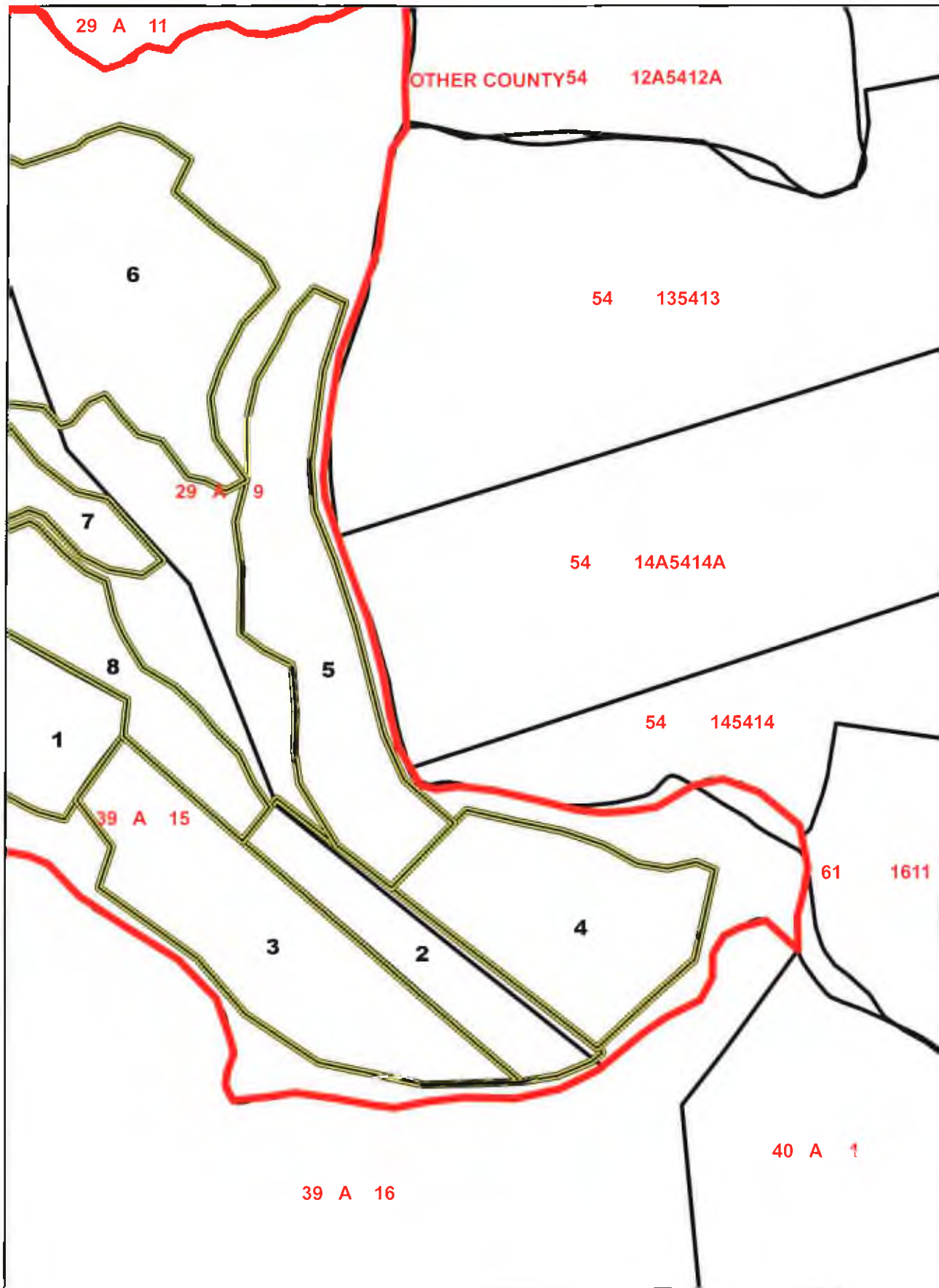


12-7-17

**Tax Map**

1 in = 660 feet





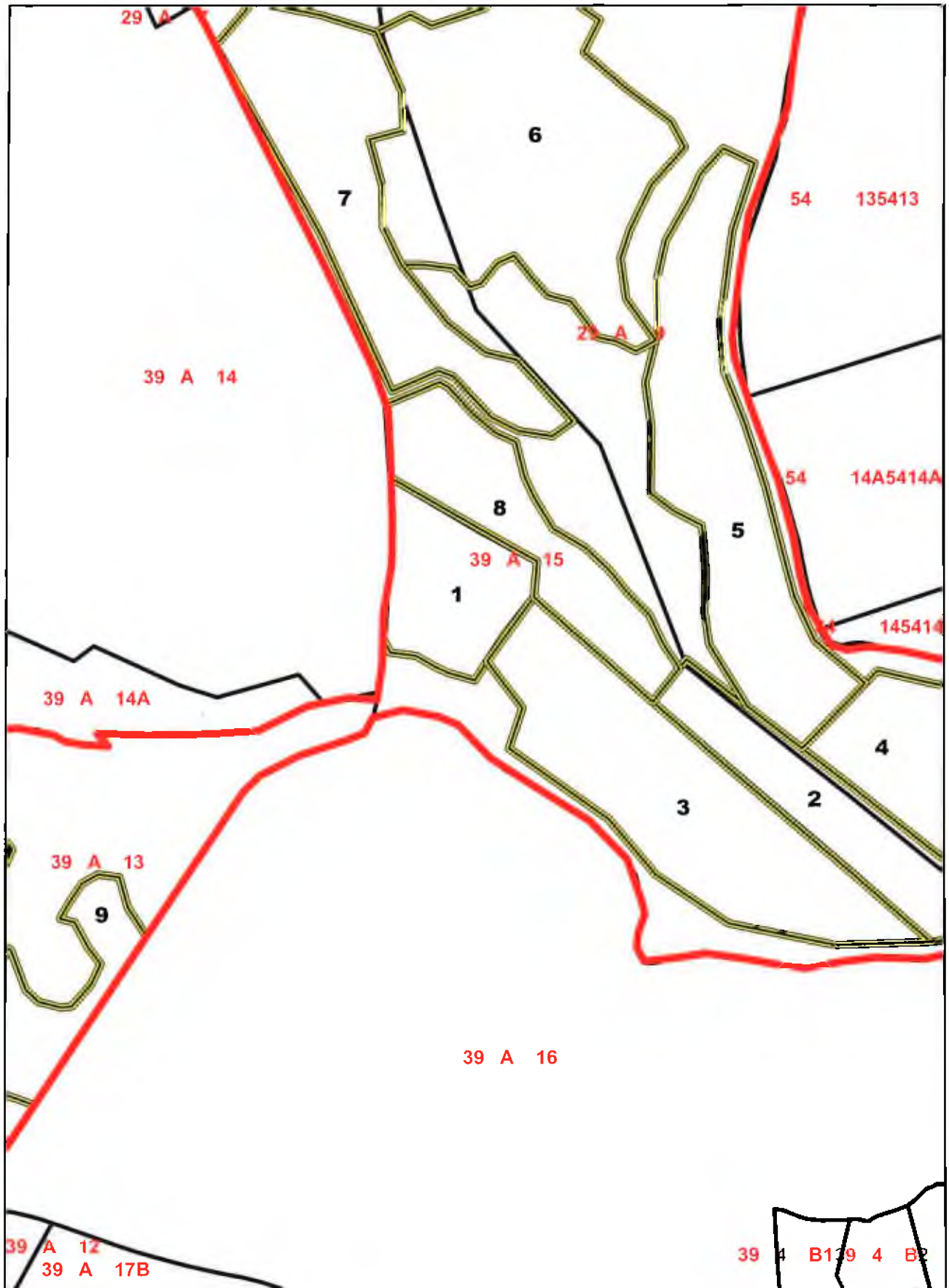
12-7-17

Tax Map

1 in = 660 feet



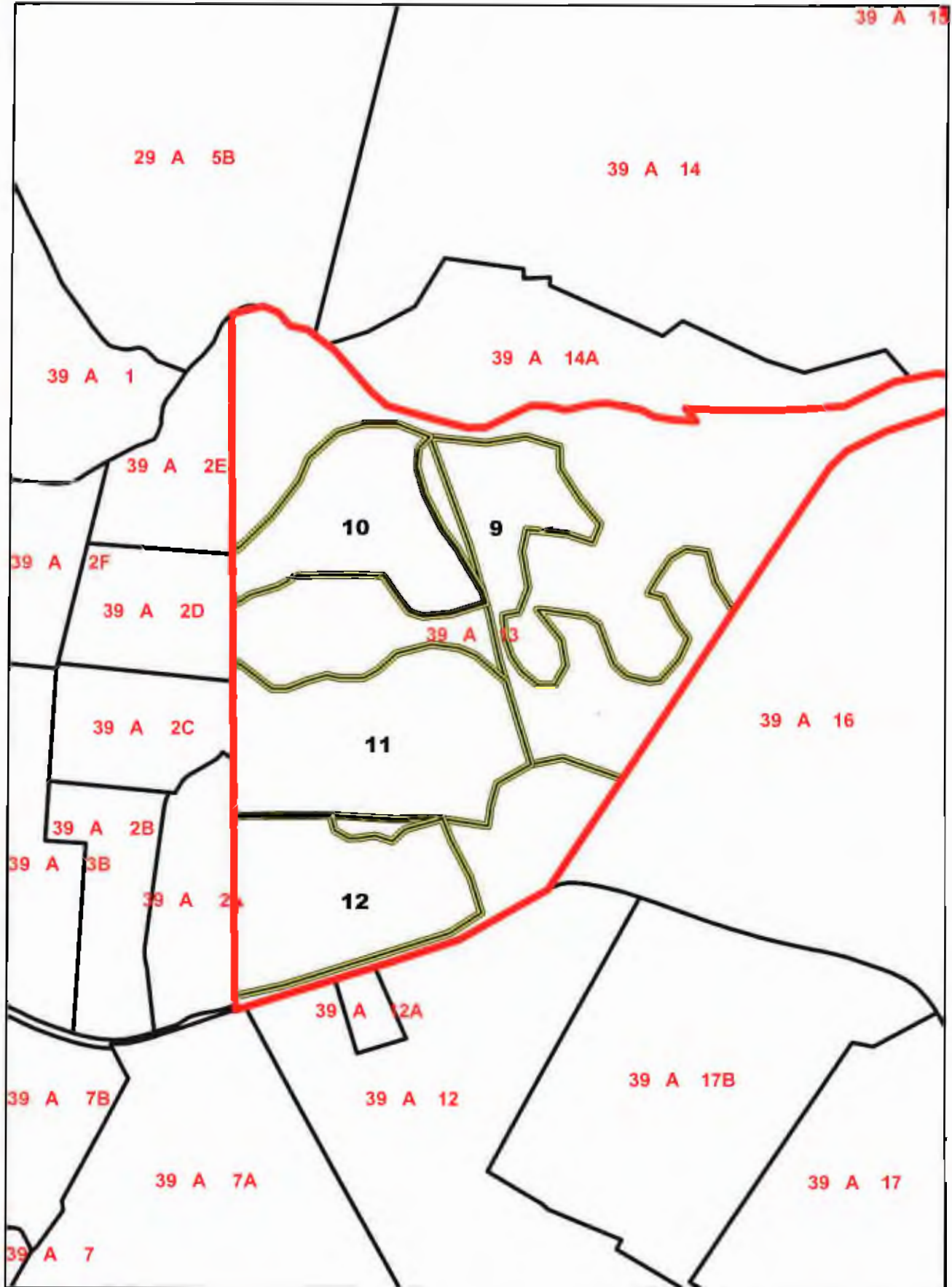




12-7-17

**Tax Map**

1 in = 660 feet



12-7-17

**Tax Map**

1 in = 660 feet

# ADJOINING LANDOWNERS

**George W. Haney**

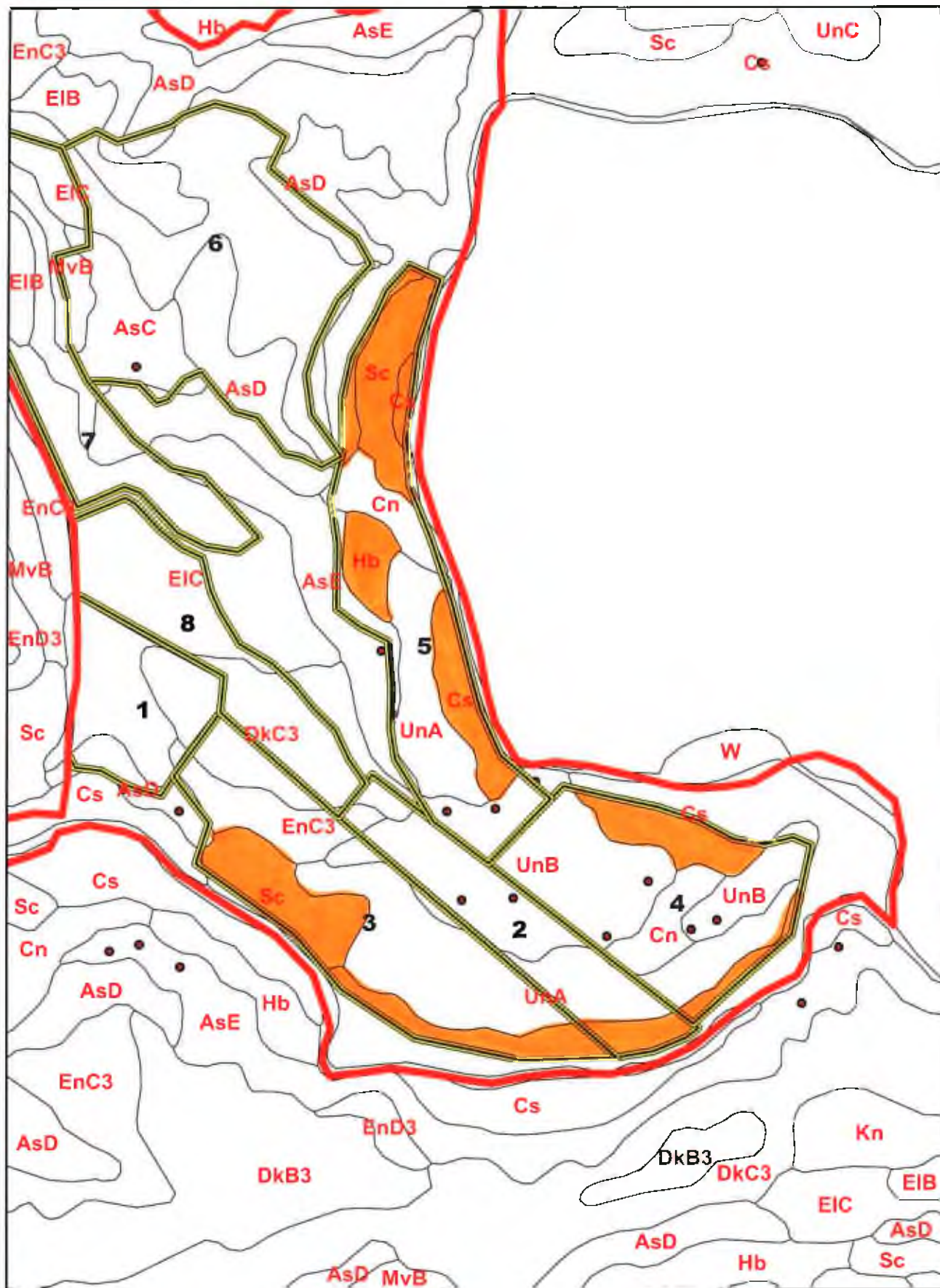
## GREENE COUNTY

<b>Tax Map</b>	<b>Parcel #</b>	<b>Owner Name(s)</b>
29-A	5B	Walter Reid and Patsy P. Haney
	7	Cemetery
	8	George E. Haney
	11	Travis Dale and Emogene Baugher
	12	James A. and Patricia Henshaw
39-A	2A	Harold W. and Carolene S. Johnson
		Mary Ann Newbill Burke Trustee of Mary Ann Newbill Burke
	2C	Rev. Trust
		Mary Ann Newbill Burke Trustee of Mary Ann Newbill Burke
	2D	Rev. Trust
		Mary Ann Newbill Burke Trustee of Mary Ann Newbill Burke
	2E	Rev. Trust
	7A	Henry Jr. and Arlene McDaniel
	12	William E. McDaniel
	12A	Kathryn M. and Rodney A. Brunelle
40-A	14	Kathryn Thomas
	14A	Kathryn Thomas
	16	Parrott Property LLC c/o Fried Companies Inc.

## MADISON COUNTY

54	12A	Monsalvat LLC
	13	Philip A. Sansone
	14	Alexandra Britton Littlehales
	14A	Sevenoaks Pathwork Center Inc.
61	1	Alexandra Britton Littlehales





12-7-17

## Soil Map

1 in = 660 feet





The geological map displays various units labeled with codes such as EnC3, MvB, AsD, AsE, EIC, EIB, AsC, Sc, Cs, Kn, Hb, Cn, UnA, UnB, UnC, DkC3, DkB3, and W. The map is divided into several regions by a red line and a green line. Numbered locations 1 through 9 are marked with black dots. The map also shows a network of roads and a river (W) in the bottom right corner.



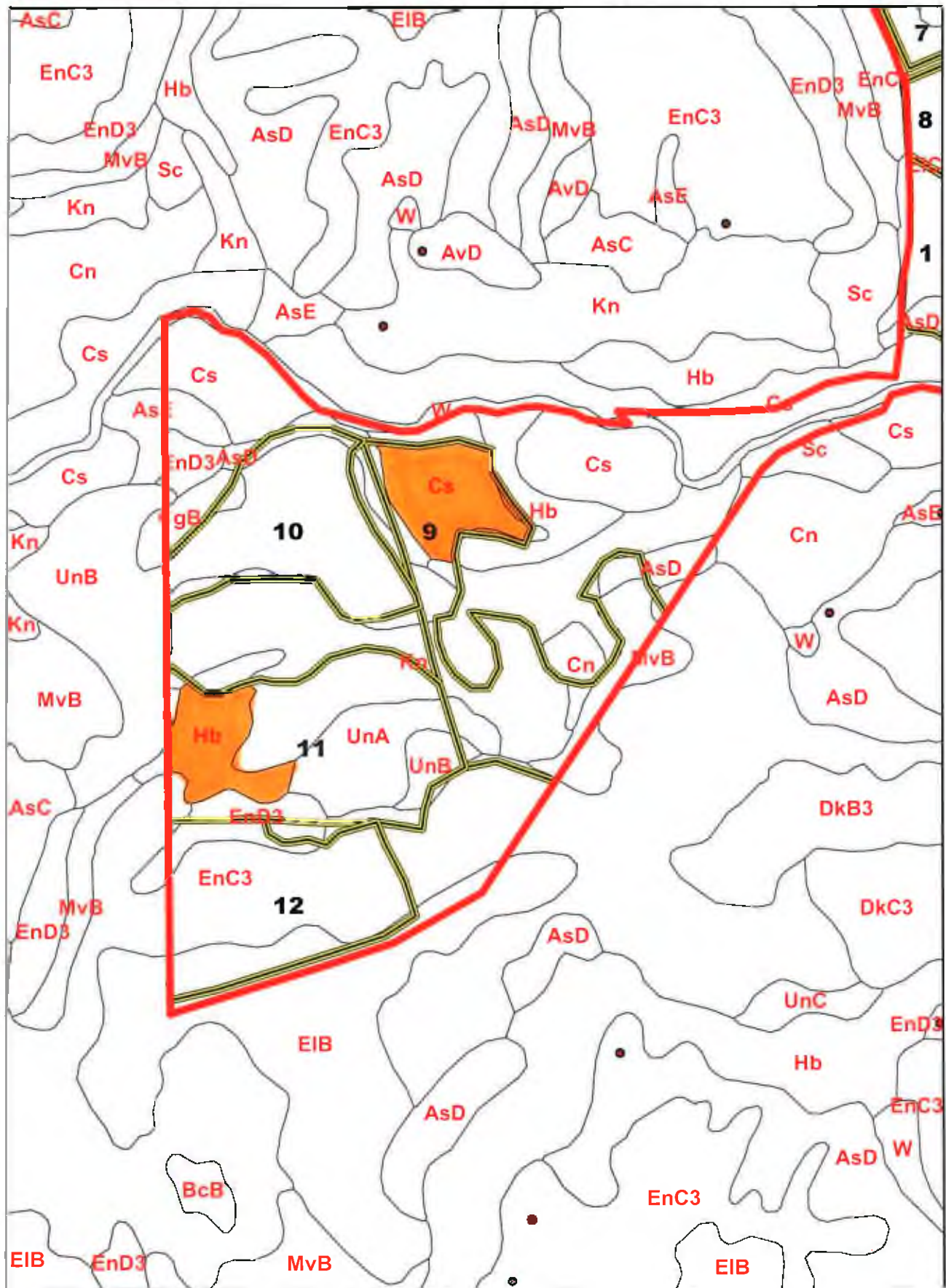
12-7-17

## Frequently Flooded

# Soil Map

1 in = 660 feet





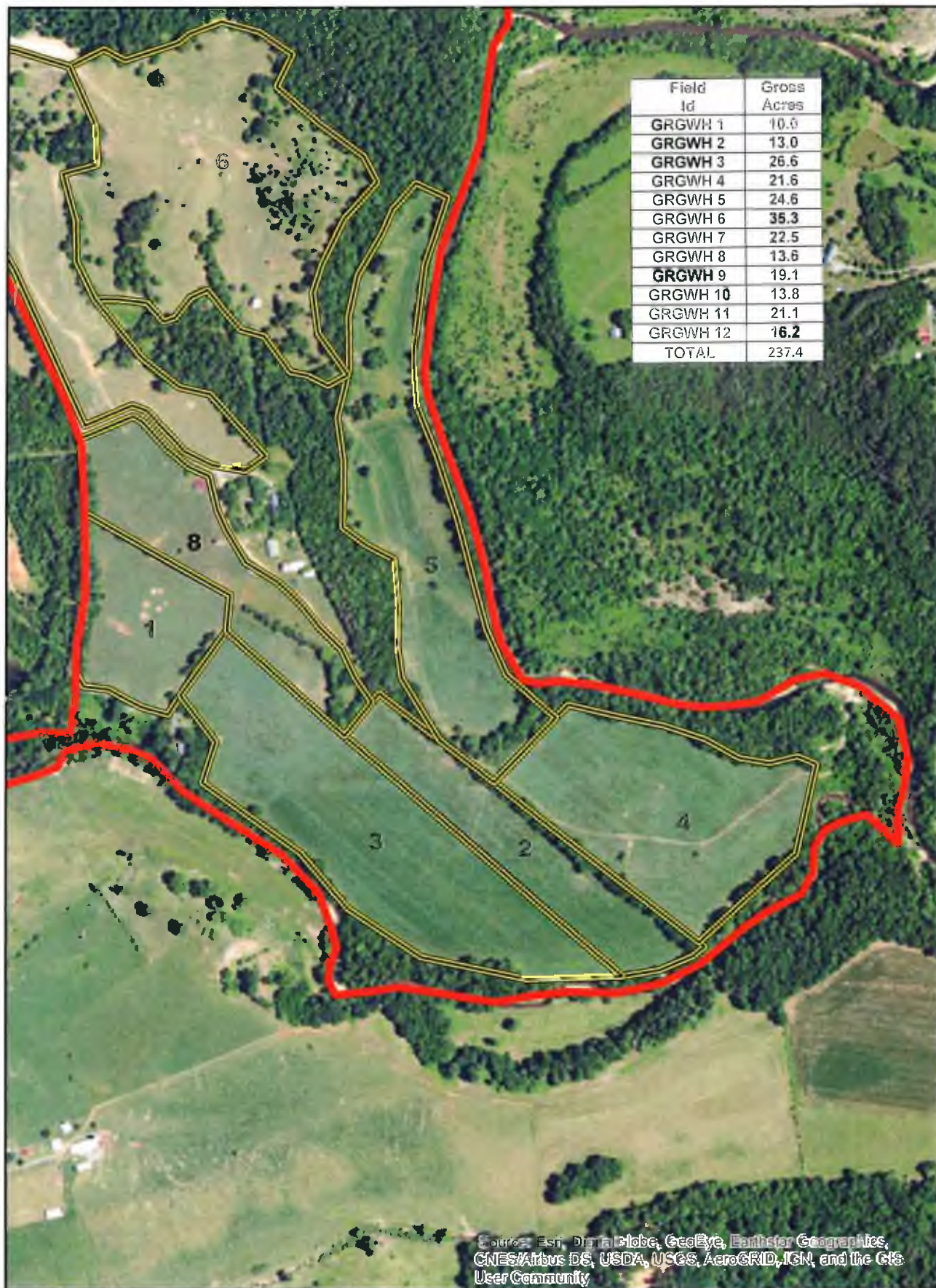
12-7-17

Soil Map

1 in = 660 feet

Frequently  
Flooded



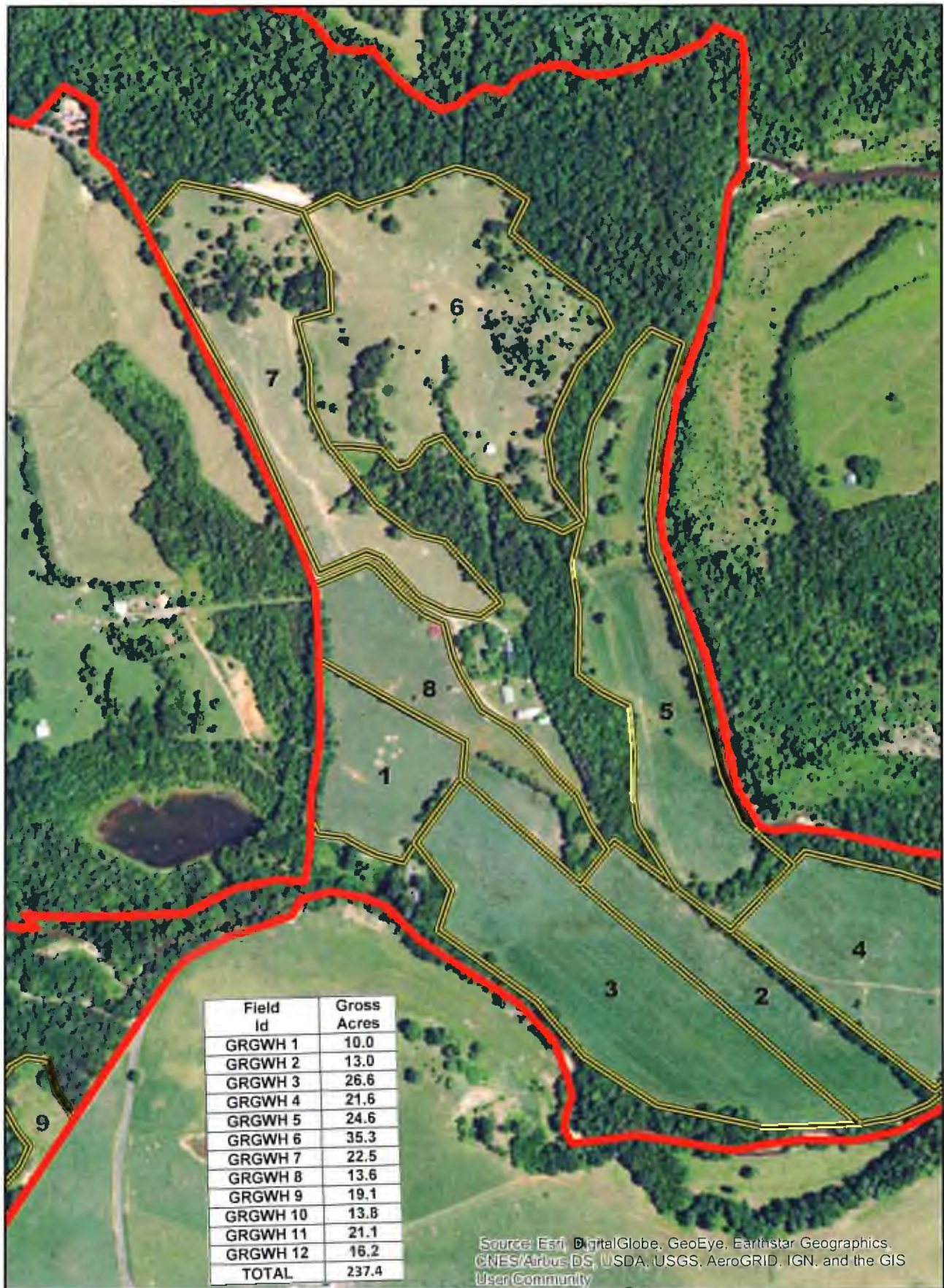


12-7-17

Aerial Map

1 in = 660 feet



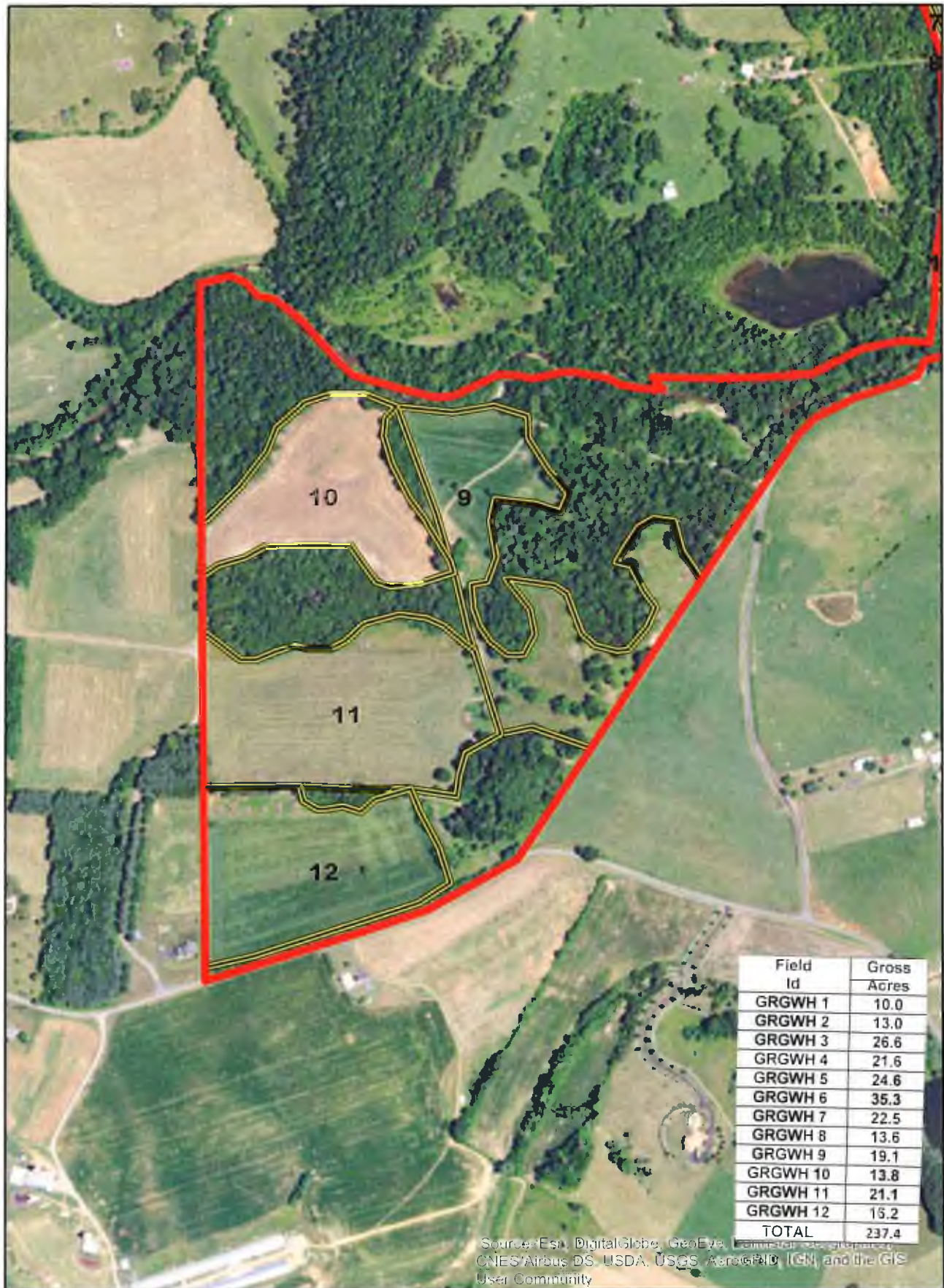


12-7-17

Aerial Map

1 in = 660 feet





12-7-17

Aerial Map

1 in = 660 feet



UNITED STATES DEPARTMENT OF  
**AGRICULTURE**



**FSN 769 Tract 384**  
**George Haney**



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.





UNITED STATES DEPARTMENT OF  
**AGRICULTURE**



**FSN 768 Tract 372**  
**George Haney**



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



UNITED STATES DEPARTMENT OF  
**AGRICULTURE**



**FSN 770 Tract 457**  
**George Haney**



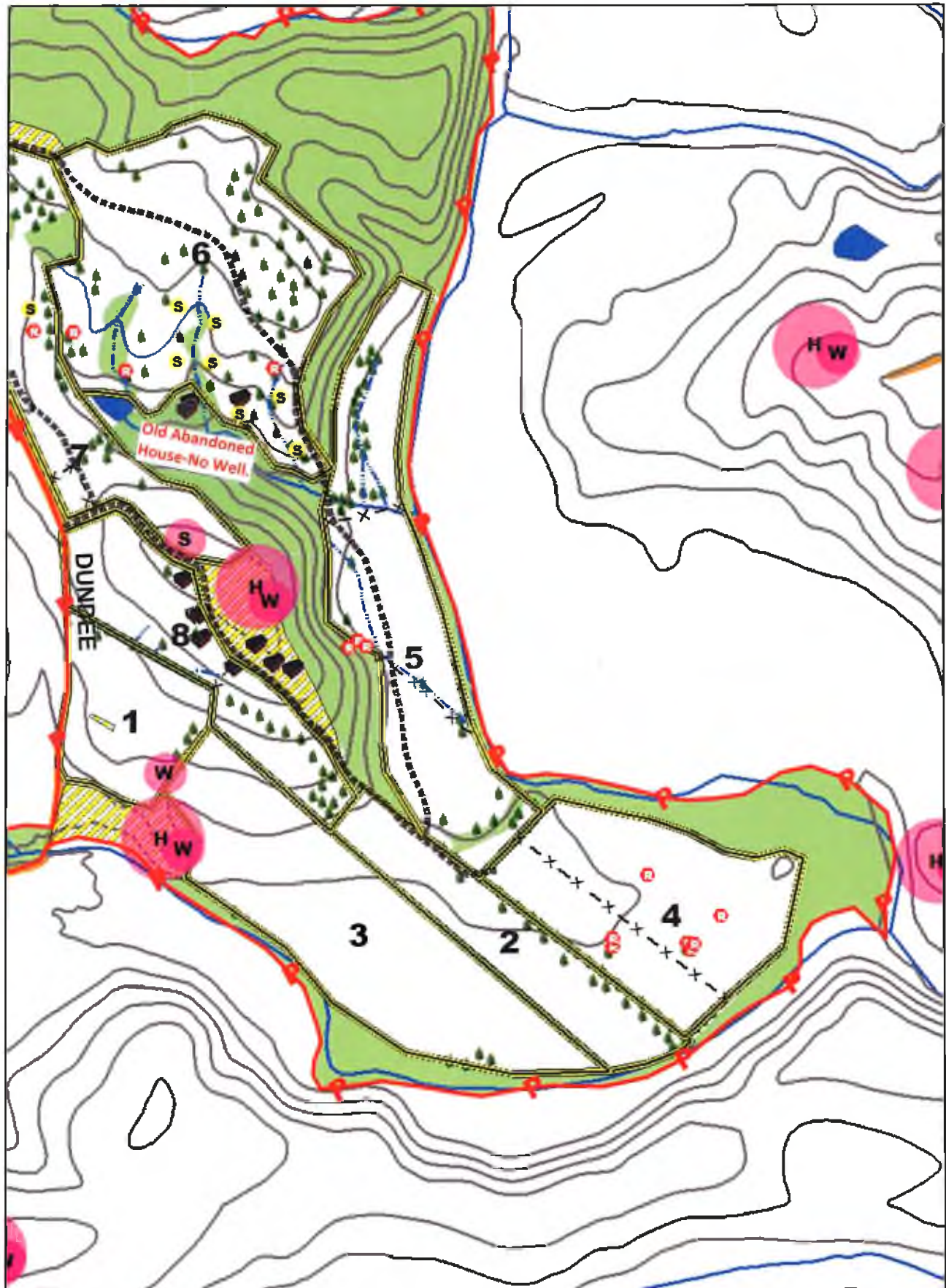
Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

# Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

\*Buffer can be reduced or waived upon written consent from landowner.





12-7-17

Site Map

1 in = 660 feet





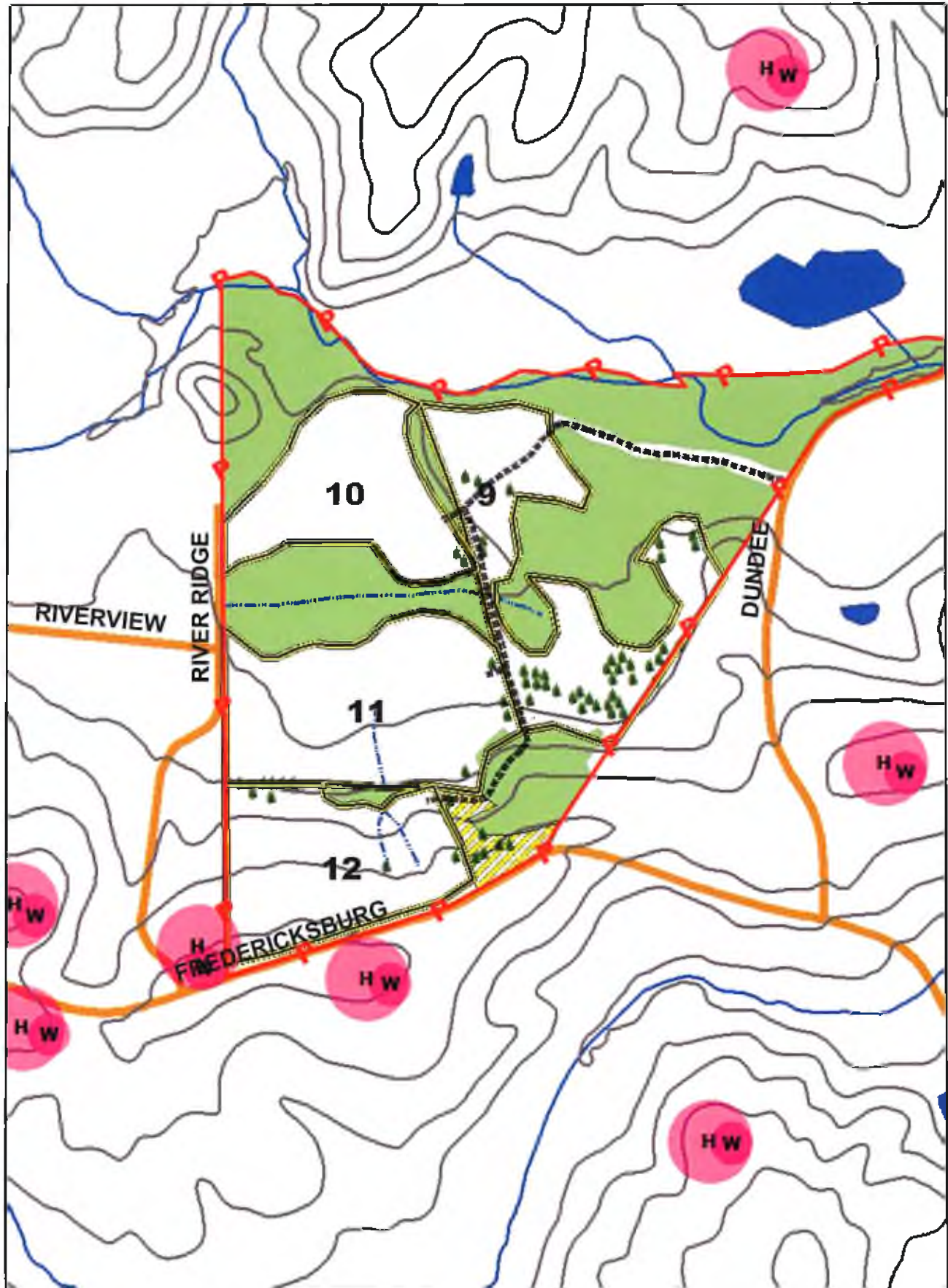
This topographic map depicts the Dundee area, characterized by green-shaded contour lines indicating elevation. A prominent red line with arrows, likely representing a road or boundary, runs along the left and bottom edges. The map includes several numbered points (1-9) and symbols for various features: 'H' for a house, 'HW' for a house with a well, 'S' for a shed, and 'R' for a road. A blue line represents a stream or river. A specific location is marked with a red dot and labeled 'Old Abandoned House-No Well.'. The map also shows a yellow hatched area and a blue pond. The word 'DUNDEE' is written vertically along the left side of the map.

## Site Map

1 in = 660 feet







12-7-17

Site Map

1 in = 660 feet





12-7-17

Topographic Map

1 in = 2,000 feet